STANDARD FORM NO. 64

CONFIDENTIAL

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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files - RD-103, Task Order 10

DATE: 2 November 1959

FROM : [redacted] 25X1

SUBJECT: Conference Report - RS-16B

1. On 26, 27, and 28 October 1959 a conference was held in Washington to discuss the RS-16B with [redacted] an engineering representative of [redacted] Persons present part time or wholly at this conference were: 25X1 25X1

[redacted] 25X1

2. [redacted] has presented a rough draft of a proposal for a RS-16D, which is a one-drawer unit capable of transmitting synchronously, and therefore permitting direct on-line recording by existing base stations. This drawer would also render the RS-16 capable of being operated below 6 mc. An alternate solution to low-frequency operation and direct readout was proposed during the discussion. This would involve a separate strip reader and an outboard power amplifier. OC-E and OC-T representatives are to meet in an attempt to resolve this problem. [redacted] is to look into the possibility of obtaining commercially a strip reader. Also, the contractor is to determine the maximum length of message from a RS-16B and the ramifications of building up an external power amplifier for low-frequency operation, and what would be required in the line of a power supply. 25X1

[redacted] 25X1

Distribution:
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STANDARD FORM NO. 64

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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files - RD-103, Task Order 10

DATE: 29 September 1959

FROM : [redacted] 25X1

SUBJECT: Trip Report - RS-16B

1. On 29 and 30 September 1959 a visit was made to [redacted] 25X1
[redacted] 25X1
to discuss Contract RD-103, Task Order 10. Persons contacted on this visit were:

[redacted] 25X1

2. The RS-16B field set returned to [redacted] by the writer was 25X1
found to have had a shorted coil. The coil was shorted to the cover plate of the module. It has been fixed and is being returned. One other RS-16B, actually made up of spare modules, is to be delivered as a unit. The remaining spares will be forwarded in one shipment. All RS-16B equipment and spares will have been accounted for after this delivery. The final report will consist of an addendum to the test power supply manual.

3. OC-T/CT/OR has requested me to look into low frequency operation (from 2.5 mc and up). It was found that it would be difficult to operate the RS-16 transmitter below 6 mc. Continuous operation from 2.5 to 6 mc would require major exciter and power amplifier changes. It might be possible to operate below 6 mc by making spot frequency operation. A suggestion has been made which may solve this problem as well as the strip reader problem. As the RS-16 is operated now, a separate battery, separate antenna tuner, and a separate strip reader would be required. It seems more logical to put all of this equipment into one unit approximately the size of a 51J receiver cabinet. The modules contained in this cabinet would be the strip reader, the exciter, the power amplifier, the antenna tuner, and the receiver. It could be operated from a wall plug and also would be of a size which could be pouched conveniently. It appears that the cost of doing this will not be too great.

[redacted] 25X1

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